**Unit 10, Part C: Cell Communication Quiz Review**

Ms. Ottolini, AP Biology, 2012-2013

**Quiz Format:** 10 vocab matching questions, 8 multiple choice questions, 7 short answer questions

**Resources to Study:** Part C Video Notes (#8-11) and Nervous System Book Notes

**Vocab Terms to Know:**

* Ligand
* Reception
* Transduction
* Response
* Phosphorylation
* Second Messenger
* Resting Potential
* Action Potential
* Neurotransmitter
* Ligand-Gated Ion Channel
* Stretch-Gated Ion Channel
* Voltage-Gated Ion Channel
* Central Nervous System
* Peripheral Nervous System
* Autonomic Nervous System
* Somatic Nervous System

**Necessary Skills:**

1. Be able to label and identify the functions of the parts of a neuron
2. Be able to explain how reflexes (ex: the knee jerk pathway) involve different neural pathways than conscious movements in response to stimuli (ex: a fly biting your foot)
3. Be able to describe each step in the creation of an action potential
4. Be able to explain the significance of the “threshold potential / voltage”
5. Be able to describe how an action potential is terminated and resting potential is restored
6. Be able to analyze a graph depicting membrane voltage changes as a result of action potential signals
7. Be able to explain how Schwaan cells improve the efficiency of action potential movement down the axon via salutatory conduction
8. Be able to describe each step in synaptic transmission / communication between neurons
9. Be able to explain how neurotransmitter molecules are removed from the synaptic cleft
10. Be able to identify the structures / molecules shown in an image of synaptic transmission
11. Be able to distinguish between the basic functions of the hindbrain structures and forebrain structures
12. Be able to describe the mechanism by which epinephrine signals liver cells to break glycogen into individual glucose molecules during the fight or flight response (and identify all molecules involved)